

Substitute Sequence Listing.TXT

<110> Korea Advanced Institute of Science and Technology
 <120> CONSTRUCTION OF NOVEL STRAINS CONTAINING MINIMIZING
 GENOME BY Tn5-COUPLED Cre/loxP EXCISION SYSTEM
 <130> 02730.0020.PCUS00
 <140> 10/505,328
 <150> PCT/KR02/02033
 <151> 2002-10-31
 <150> KR 10-2002-0009647
 <151> 2002-02-22
 <160> 13
 <170> KopatentIn 1.71
 <210> 1
 <211> 2437
 <212> DNA
 <213> Artificial Sequence
 <220>
 <223> TnKGlloxP

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gtcccgtca gaagaactcg tcaagaaggc gatagaaggc gatgcgctgc gaatcgggag	240
cggcgatacc gtaaagcacg aggaagcggg cagcccattc gccgccaagc tcttcagcaa	300
tatcacgggt agccaacgct atgtcctgat agcgggtccgc cacaccagc cggccacagt	360
cgatgaatcc agaaaagcgg ccattttcca ccatgatatt cggcaagcag gcatcgccat	420
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tccgagtacg tgctcgctcg atgcgatggt tcgcttggtg gtcgaatggg caggtagccg	600
gatcaagcgt atgcagccgc cgcattgcat cagccatgat ggatactttc tcggcaggag	660
caaggtgaga tgacaggaga tcctgccccg gcacttcgcc caatagcagc cagtccttcc	720
ccgcttcagt gacaacgctg agcacagctg cgcaaggaac gcccgtcgtg gccagccacg	780
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aaagaaccgg gcgcccctgc gctgacagcc ggaacacggc ggcacagag cagccgattg	900
tctgttgtgc ccagtcatag ccgaatagcc tctccacca agcggccgga gaacctgcgt	960

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gcaatccatc ttgttcaatc atgcgaaacg atcctcatcc tgtctcttga tccactagat	1020
tattgaagca tttatcaggg ttattgtctc atgagcggat acatatttga atgtatttag	1080
aaaaataaac aaataggggt tccgcgcaca tttccccgaa aagtgccacc tgcatacgatg	1140
aattgatccg aagttcctat tctctagaaa gtataggaac ttcgaattgt cgacaagctt	1200
gatctggctt atcgaaatta atacgactca ctataggag accggaattc attatttgta	1260
gagctcatcc atgccatgtg taatcccagc agcagttaca aactcaagaa ggaccatgtg	1320
gtcacgcttt tcggtgggat ctttcgaaag ggcagattgt gtcgacagg aatggttgc	1380
tggtaaaagg acagggccat cgccaattgg agtattttgt tgataatgg ctgctagttg	1440
aacggatcca tcttcaatgt tgtggcgaat tttgaagtta gctttgattc cattcttttg	1500
tttgtctgcc gtgatgtata cattgtgtga gttatagttg tactcgagtt tgtgtccgag	1560
aatgtttcca tcttctttaa aatcaatacc ttttaactcg atacgattaa caagggatc	1620
accttcaaac ttgacttcag cacgcgtctt gtagttcccc tcatctttga aagatatagt	1680
gcgttcctgt acataacctt cgggcatggc actcttgaaa aagtcatgcc gtttcatatg	1740
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aacaagaatt gggacaactc cagtgaaaag ttcttctcct ttactcattt tttctaccgg	1980
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gcataaagtg taaagcctgg ggtgccta at gagtgagcta actcacatta attgcgttgc	2160
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tccggatcct ctagagtaga cctctagagt cgacctgcag gcatgcaagc ttcagggttg	2340
agatgtgtat aagagacagc tgcattaatg aatcggccaa cgcgcgggga gaggcgggtt	2400
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 <211> 1511
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> TnCloxP

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ctcatcgag tactgttgta attcattaag cattctgccg acatggaagc catcacagac	300
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aacggtgtaa caagggtgaa cactatccca tatcaccagc tcaccgtctt tcattgccat	660
acggaatttc ggatgagcat tcatcaggcg ggcaagaatg tgaataaagg ccggataaaa	720
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cccggtatca acagggacac caggatttat ttattctgcg aagtgatctt ccgtcacagg	1080
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gagtcgacct gcaggcatgc aagcttcagg gttgagatgt gtataagaga cagctgcatt	1440
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cgctcactga c	1511

<210> 3
 <211> 19
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> OE sequence

<400> 3
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19

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<210> 4
 <211> 34
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> loxP site

<400> 4
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<210> 5
 <211> 996
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> KmR gene

<400> 5
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 cgaggaagcg gtcagcccat tcgccgcca gctcttcagc aatatacacg gtagccaacg 180
 ctatgtcctg atagcgggtcc gccacaccca gccggccaca gtcgatgaat ccagaaaagc 240
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 cgccgtcggg catccgcgcc ttgagcctgg cgaacagttc ggctggcgcg agcccctgat 360
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 gccgcattgc atcagccatg atggatactt tctcggcagg agcaagggtga gatgacagga 540
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 cgagcacagc tgcgcaagga acgcccgtcg tggccagcca cgatagccgc gctgcctcgt 660
 cttggagttc attcagggca ccggacaggt cggctcttgac aaaaagaacc gggcgcccct 720
 gcgctgacag ccggaacacg gcggcatcag agcagccgat tgtctgttgt gcccagtcac 780
 agccgaatag cctctccacc caagcggccg gagaacctgc gtgcaatcca tcttgttcaa 840
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<210> 6
 <211> 947
 <212> DNA
 <213> Artificial Sequence

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<220>
<223> GFP gene

<400> 6
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aatggttgtc tggtaaaagg acagggccat cgccaattgg agtattttgt tgataatggt 180
ctgctagtgtg aacggatcca tcttcaatgt tgtggcgaat tttgaagtta gctttgattc 240
cattcttttg tttgtctgcc gtgatgtata cattgtgtga gttatagtgt tactcgagtt 300
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caagggatc accctcaaac ttgacttcag cacgcgtctt gtagttccccg tcatctttga 420
aagatatagt gcgttcctgt acataacctt cgggcatggc actcttgaaa aagtcatgcc 480
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cgtatgttgc atcaccttca ccctctccac tgacagaaaa tttgtgcccc ttaacatcac 660
catctaattc aacaagaatt gggacaactc cagtgaagaa tttcttctctt ttactcattt 720
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tcatggatcat agctgtttcc tgtgtgaaat tgttatccgc tcacaattcc acacaacata 840
cgagccggaa gcataaagtg taaagcctgg ggtgcctaata gagtgagcta actcacatta 900
attgcgttgc gctcactgcc cgctttccag tcgggaaatc caagggc 947

<210> 7
<211> 1069
<212> DNA
<213> Artificial Sequence

<220>
<223> CmR gene

<400> 7
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ccctgccact catcgcagta ctgttgaat tcattaagca ttctgccgac atggaagcca 180
tcacagacgg catgatgaac ctgaatcgcc agcggcatca gcacctgtc gccttgcgta 240
taatatttgc ccatggtgaa aacgggggagc aagaagttgt ccatattggc cacgtttaaa 300
tcaaaactgg tgaaactcac ccagggattg gctgagacga aaaacatatt ctcaataaac 360
cctttagggg aataggccag gttttcaccg taacacgcca catcttgcca atatatgtgt 420

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agaaactgcc ggaaatcgtc gtggtattca ctccagagcg atgaaaacgt ttcagtttgc	480
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attgccatac ggaatttcgg atgagcattc atcaggcggg caagaatgtg aataaaggcc	600
ggataaaact tgtgcttatt tttctttacg gtcttttaaa aggccgtaat atccagctga	660
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gtcacaggta ttatttcggc gcaaagtgcg tcgggtgatg ctgccaaact actgatttag	1020
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<210> 8
 <211> 19
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> primer-pMOD<MCS>FP-1

<400> 8	
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<210> 9
 <211> 22
 <212> DNA
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<220>
 <223> primer-pMOD<MCS>RP-1

<400> 9	
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<210> 10
 <211> 28
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> primer-Tn5Ext

<400> 10	
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<210> 11

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<211> 35
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> primer-Arb1

 <220>
 <221> misc_feature
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 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> primer-Arb2

 <400> 12
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 <210> 13
 <211> 25
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> primer-Tn5Int

 <400> 13
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